

## Florida Gold Coast Clean Cities Program

The Florida Gold Coast Clean Cities Program includes Broward, Palm Beach, and Metro-Dade counties.

Designation Number	Date	Participating DOE Official
9	May 5, 1994	Christine Ervin, Assistant Secretary, Energy Efficiency and Renewable Energy

### Summary of AFVs and Infrastructure

<i>Fuel Type</i>	<i>AFVs at Designation</i>	<i>Projected AFVs in 2000</i>	<i>Infrastructure at Designation</i>	<i>Projected Infrastructure in 2000</i>
CNG	-	791	-	19
Propane	-	409	-	12
Methanol	-	15	-	-
Ethanol	-	714	-	-
Electric	-	79	-	4
Fuel Unspecified	400	9	0	-
Total	400	2,017	0	35

### Achievements

Miami's "Electrowave" electric shuttle bus system (the first of its kind in Florida) began service in February 1998. Seven 22-passenger buses serve passengers in the South Beach area free of charge all year long. The "Electrowave" system was developed by the Miami Beach Transportation Management Association and the City of Miami Beach, in conjunction with the Florida Gold Coast Clean Cities Coalition and other participants. By the end of 1998, the service had carried 1.5 million passengers, three times their original estimates.

The City of Sunrise, a Florida Gold Coast Clean Cities Coalition member, added sixteen high-performance Ford CNG Crown Victoria police cruisers to their fleet in 1998. These vehicles can refuel at two fueling facilities within the city. This project was funded by a grant from the Florida Gold Coast Clean Cities Coalition's Alternative Fuel Vehicle Grant Program. The City of Sunrise also has thirteen dedicated CNG utility service vehicles and 140 bi-fuel CNG vehicles for its city departments.

The US Department of Agriculture's Animal and Plant Health Inspection Services received 14 electric Ford Rangers in August 1998. This is one of the largest electric vehicle fleets in a Federal department.

### Grants Received

In 1995 the Florida Gold Coast area was awarded \$85,000 from DOE to finance an electric vehicle pilot project and develop a complementary educational program targeted to middle-school students in Dade, Broward, and Palm Beach counties. In 1997, Florida Gold Coast received an SEP grant of \$50,000 to develop educational tools, conduct workshops, and provide technical assistance. In 1998, the Gold Coast Clean Cities program received a \$20,000 SEP grant to cover program costs of expanding the program to a fourth county (Monroe County).

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State Department of Community Affairs awarded the following alternative fuel vehicle grants to municipalities in the Gold Coast area: \$166,975 to the City of Hollywood for a CNG fueling facility; \$158,000 to the city of Coral Springs for propane vehicles; and \$139,000 to the city of North Bay Village for a CNG fueling facility.

Awarded \$50,000 from the Dade Metropolitan Planning Organization (MPO) to develop and implement a baseline energy study. Working toward gaining support from Palm Beach and Broward MPOs to conduct the study for the entire three-county airshed.

### **Special Projects and Upcoming Events**

The Florida Gold Coast Clean Cities Coalition plans to add the counties of Monroe and Martin to its program in 1999. This is part of a statewide effort by the Florida Energy Office to cover the entire state of Florida with five Clean Cities Coalitions.

The Florida Gold Coast Clean Cities Coalition will be working with the Clean Fuel Florida Coalition on legislative efforts. The Clean Fuel Florida Coalition was formed in 1998 by industry and government interests, and Florida Power & Light is the leader of this coalition. It is hoped that a Clean Fuel Florida Advisory Board will be established under the Department of Community Affairs to be responsible for studying the state's alternative fuel usage and making recommendations to the legislature on the best programs.

### **Florida Gold Coast Receives "Legal Eagle" Award at Third Clean Cities Conference**



### **Original Stakeholders List**

Twenty-six stakeholders including: the cities of Hollywood, Plantation, North Miami, Coral Springs, and Sunrise; Broward, Palm Beach, and Metro-Dade County; Peoples Gas System; Public Gas Company; Siegle Gas and Oil Corporation; Synergy Gas Corporation; Amoco Oil Company; Florida Power and Light; Florida Public Utilities Company; City Gas Company of Florida; Americas; South Florida Regional Planning Council; Gold Coast Commuter Services; Florida Department of Community Affairs; Florida Department of Management Services; Florida Department of Environmental Protection (DEP); U.S. EPA; U.S. GSA; and U.S. DOE.

### **Significant Stakeholders Added Since Designation**

Bellsouth Telecommunications; City of Palm Beach Gardens; City of Sunrise Gas Department; Greater Miami Chamber of Commerce; and Waste Management of Palm Beach.

### **Clean Cities Coordinator**

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## *Florida Gold Coast Clean Cities Program*

### Coalition Web Site

*<http://www.sfrpc.com/current.menu523.htm>*

## Florida Space Coast Clean Cities Program

Designation Number	Date	Participating DOE Official
75	October 1, 1999	Dan Reicher, Assistant Secretary for Energy Efficiency and Renewable Energy

### Summary of AFVs and Infrastructure

<i>Fuel Type</i>	<i>AFVs at Designation</i>	<i>Projected AFVs in 2000</i>	<i>Infrastructure at Designation</i>	<i>Projected Infrastructure in 2000</i>
CNG	346	473	18	44
Propane	99	117	57	62
Methanol	3	9	1	1
Ethanol	2	8	-	3
Electric	72	147	5	17
Total	522	754	81	127

### Achievements

The Florida Space Coast Coalition is promoting alternative fuel use throughout the community. Stakeholders are working with the Florida Department of Transportation and local chambers of commerce to integrate AFVs into projects that assist transportation problems, including station car projects and joint implementation projects. Stakeholders are also working to integrate AFVs into tourist transportation systems and the shuttle industry—this not only promotes the Space Coast as a progressive region to visitors, but also showcases the practicality of AFVs. The coalition is also developing partnerships to increase CNG infrastructure by using present pipeline gateways that are readily accessible and regionally located throughout the coalition's service area and can be easily converted to low cost slow fill stations.

The coalition is actively involved in a variety of public outreach activities to support a growing alternative fuels market. These activities include:

*The SunDay Challenge*, an alternative energy vehicle rally to help educate industry and the general public about AFVs. Vehicles powered by all types of fuels, including solar, have participated in the event.

*Junior Solar Sprint*, a competition for middle school students from throughout Florida. Students work in teams to design, build, and race model-sized solar powered vehicles. More than 4,000 students and teachers have participated in regional and statewide competitions held throughout the school year. Host sites for the competition have included Disney's Epcot Center, Space Camp and the University of Central Florida and the Florida Solar Energy Center.

*Electrathon*, a program for high school and college students in Florida. Teams of students work together to design and build an electric powered go-cart vehicle. Yearly competitions allow students to test their vehicles in a racing format.

*Teacher workshops on energy*, which include alternative fuel information. One of the workshops was facilitated at the statewide Florida Association of Science Teachers Conference. Another effort, entitled "Alternative Fuel Matters," is a comprehensive interdisciplinary science unit for intermediate grades. It was developed to expand the Junior Solar Sprint program to encompass issues relating to air quality, global warming, and alternative fuels used for transportation.

*Workshops for Fleet Managers*. The coalition has coordinated several workshops for both fleet managers and technicians. The fleet manager workshop provides an overview of all alternative

## ***Florida Space Coast Clean Cities Program***

fuels and vehicles promoted by the Clean Cities Program. Subjects covered during the workshop include vehicles, infrastructure, safety, regulations, service, and operation on alternative fuel technologies. The technician workshop provides an overview of AFVs as well as structure, maintenance, and repair of the vehicles. The technician training program is being incorporated into the local community college automotive technician program.

The coalition is an active participant in the state-wide legislative effort called Clean Fuels Florida, which promotes incentives for increased AFV use and infrastructure development to the state legislature. The incentive programs include buy-downs, free EV charging days, no-toll days, and preferred parking areas to AFV drivers through various supporting organizations. The coalition is also working to develop a vehicle loan program with short evaluation periods to allow potential AFV owners and operators to gain experience before purchasing AFVs or investing in infrastructure.

### **Special Projects and Upcoming Events**

The coalition is working to develop corridors within the Space Coast region, as well as throughout the state. In the Space Coast region, stakeholders are working on strategic infrastructure development and targeting fleets for AFV use located along corridors extending from the Orlando Airport to the beach, port, and tourist areas. Completion of these corridors will result in a commuter triangle. The coalition is also working with the Florida Gold Coast Coalition and the statewide effort, Clean Fuels Florida, on corridor development along interstate highways that will enable AFV travel throughout the state. As part of their contribution to the state wide effort, Space Coast Clean Cities stakeholders are compiling a Florida-specific directory of refueling stations that includes contacts, and repair and maintenance information.

The Florida Solar Energy Center, Florida Department of Transportation, Dade County Traffic Control, and Florida Power & Light are working to develop an emergency power system using an electric or hybrid-electric vehicle as the power source. In a disaster, the vehicle would be able to provide electrical power to traffic signals, emergency operation equipment, or shelters. The vehicles would have power conditioning equipment to supply the AC power and the hybrid will use CNG and fuel cell generators. The concept is still under development.

### **Grants Received**

The Florida Department of Community Affairs awarded funds to several Florida Space Coast Clean Cities stakeholders to support AFV projects through its Local Government Alternative Fuel Vehicle Initiative program. The organizations listed below received funds for projects.

Florida Institute of Technology—\$49,960 for a methanol station and methanol vehicles (a project in partnership with Brevard County).

City of Melbourne—\$10,000 for two neighborhood electric vehicles to help expand its neighborhood watch groups throughout the city.

Space Coast Clean Cities—\$50,000 to support the construction of a CNG station, to be located in Titusville, near the Kennedy Space Center, and expected to be operational on December 1, 1999. Motorfulers, Inc., a stakeholder in the coalition, will be working on the station construction. The new station will be the first “unstaffed” station in the area - it will rely on software that will bill customers directly.

Fort Pierce Police Department—\$50,000 for five neighborhood electric vehicles to be used as citizen and police patrol vehicles.

City of Cape Canaveral—\$8,994 for a neighborhood electric vehicle for patrol of residential developments, port facilities and areas being used for special events.

Town of Ponce Inlet—\$4,620 for a neighborhood electric vehicle to be used by various departments within the municipality.

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### **Original Stakeholders List**

Fifty stakeholders including Alliance for Florida's Future; American Society of Mechanical Engineers; Brevard Community College; Brevard County Sheriff's Department; Brevard County Solid Waste Management; Brevard Zoo; Cape Canaveral Marine Services; City Gas Company of Florida; City of Cape Canaveral; City of Cocoa; City of Cocoa Beach; City of Fort Pierce; City of Leesburg; City of New Smyrna; City of Orlando; City of Ponce Inlet; City of Rockledge; City of Winter Springs; D & B Enterprises; East Central Florida Regional Planning Council; Florida Department of Transportation; Florida Institute of Technology; Florida Power & Light Company; Florida Solar Energy Center; Fort Pierce Utilities Authority; Indian River County Sheriff's Office; Kissimmee Utility Authority; Melbourne Police Department; Motorfuels Inc.; NASA; NUI Corporation; NVC International; Orange County Public Schools; Orange County Transportation; Orlando Utilities; Osceola County School District; People's Natural Gas Company; PV Power Corporation; Space Coast Transit; Sports City/Bombardier; U.S. Department of Energy; U.S. General Services Administration; U.S. Postal Service; University of Central Florida; Venture Capital Management Corporation; Vero Beach Council on Aging; Walt Disney World; Warren Wooton Ford; and Zeller International.

**Florida Space Coast Stakeholders at Designation**



### **Significant Stakeholders Added Since Designation**

None to date.

### **Clean Cities Coordinator**

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### **Coalition Web Site**

<http://www.fsec.ucf.edu/env/fscities/spccst.htm>

**Clean Cities-Atlanta**

Atlanta was the first city to be designated into the Clean Cities Program.

Designation Number	Date	Participating DOE Official
1	September 8, 1993	William White, Deputy Secretary of Energy

**Summary of AFVs and Infrastructure**

<i>Fuel Type</i>	<i>AFVs at Designation</i>	<i>Projected AFVs in 2000</i>	<i>Infrastructure at Designation</i>	<i>Projected Infrastructure in 2000</i>
CNG	48	3,275	-	59
Propane	-	1,020	-	83
Electric	-	610	-	75
Fuel Unspecified	-	200	8	-
Total	48	5,105	8	217

**Achievements**

In 1997, Clean Cities-Atlanta was instrumental in establishing the FuelNet system, which is a network of refueling stations that can be accessed with a fleet refueling card. At least 10 refueling stations will be linked by the FuelNet system. Also, the Atlanta Clean Cities supported legislation to provide special AFV license plates to AFV users, allowing them full access to HOV lanes.

Clean Cities-Atlanta incorporated as a 501(c)(3) non-profit organization in 1998.

Checker Cab, a significant stakeholder in Clean Cities-Atlanta, has worked with GRI, Ford Motor Company, and Atlanta Gas Light to introduce 20 CNG Crown Victoria taxicabs into its fleet. They are also currently testing a prototype CNG Ford Expedition in taxi service. Checker Cab currently has 70 CNG vehicles in its fleet.

MARTA (Metropolitan Atlanta Rapid Transportation Authority) has a fleet of over 100 CNG transit buses operating in the Atlanta area, and they plan to have one of the largest CNG bus fleets in the country by 2000.

Georgia Power and its parent company, Southern Company, have begun offering low cost electric vehicle leases to its employees. Employees may choose either the Ford Ranger pickup for \$150 per month or the General Motors EV1 car for \$200 per month. Southern Company plans to lease a total of 400 electric vehicles to its employees by 2003, bringing its total fleet of electric vehicles to almost 600. For their efforts in this regard, Southern Company and Georgia Power were the recipients of a 1999 Clean Cities National Partner Award.



## Clean Cities-Atlanta

### Grants Received

In 1996, the Atlanta area was awarded \$215,000 from the State Energy Program (SEP) to purchase EV chargers for Centennial Park, making the park all-EV. In 1997, the Atlanta area was awarded two SEP grants, one for \$50,000 to establish a universal fueling card system for the area's CNG stations, and one for \$50,000 to convert a specialized heavy-duty maintenance vehicle for the MARTA rapid rail underground tunnels. Also in 1997, the Gas Research Institute awarded the Atlanta area \$100,000 to install a total of 8 CNG refueling sites.

In 1998, the Atlanta area was awarded two SEP grants, one for \$20,000 to cover administrative costs of Clean Cities-Atlanta, and one for \$70,000 to develop a CNG van shuttle service. In 1999, the Atlanta area received two SEP grants, one for \$20,000 to cover Clean Cities Coordinator costs in Atlanta, and one for \$225,000 to install 53 electric vehicle chargers at Emory University.

Checker Cab AFVs



### Special Projects and Upcoming Events

Clean Cities-Atlanta plans to expand its universal fueling card system for CNG stations, and to implement its "Clean Commute Link" CNG shuttle service, which was funded by an SEP grant. They also plan to lease an electric vehicle for use by Clean Cities-Atlanta staff.

### Original Stakeholders List

Seven stakeholders including: the city of Atlanta; State of Georgia; Amoco Corporation; Atlanta Gas Light Company; American Gas Association; General Motors; and Ford Motor Company.

### Significant Stakeholders Added Since Designation

American Honda Motor Company; DaimlerChrysler Corporation; Georgia Department of Administrative Services; Georgia Department of Transportation; Georgia Environmental Facilities Authority; Georgia Environmental Protection Division; Georgia Power Corporation; MARTA; the cities of Canton, Conyers, Douglasville, Fairburn, Hapeville, and Marietta; and the counties of Clayton, Fulton, Gwinnett, and Rockdale.

### Clean Cities Coordinator

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### Coalition Web Site

<http://www.4cleanair.com/ccatl.html>



## Honolulu Clean Cities Program

The Honolulu Clean Cities Program is the first city outside the contiguous 48 States to join the national network of Clean City coalitions.

Designation Number	Date	Participating DOE Official
38	August 29, 1995	Richard F. Moorer, Associate Deputy Assistant Secretary, Office of Transportation Technologies

### Summary of AFVs and Infrastructure

<i>Fuel Type</i>	<i>AFVs at Designation</i>	<i>Projected AFVs in 2000</i>	<i>Infrastructure at Designation</i>	<i>Projected Infrastructure in 2000</i>
Propane	271	371	18	30
Methanol	18	2	1	-
Ethanol	12	7	-	-
Electric	-	114	6	17
Fuel Unspecified	-	-	-	1
<b>Total</b>	<b>301</b>	<b>494</b>	<b>25</b>	<b>48</b>

### Achievements

In 1998, the Honolulu Clean Cities Coalition partnered with Ford Motor Company to establish a demonstrator program with a Ford F-250 bi-fuel propane pickup. Almost 20 fleets on the island of Oahu have tried the vehicle. These demonstrations have introduced several fleet operators to propane, and have also persuaded a number of organizations to join the Honolulu Clean Cities Coalition.

The City and County of Honolulu operates 192 dedicated propane vehicles, including pickups, passenger and cargo vans, service trucks, and sport utility vehicles. Honolulu has been operating propane vehicles since 1972, when they converted a number of gasoline-powered garbage trucks to propane.

### Grants Received

In 1997, the Honolulu area received an SEP grant of \$50,000 to identify selected fleet operators who would be provided with dedicated propane vehicle conversions.

### Special Projects and Upcoming Events

A project is underway to convert a 54,000 pound tow truck to propane for use in the City and County of Honolulu. The vehicle will use an 855 cubic inch Cummins engine.

### Original Stakeholders List

Twelve stakeholders including: the city and county of Honolulu; Honolulu Public Transit Authority; Hawaii Department of Business, Economic Development, and Tourism; BHP Hawaii, Inc. - the Gas Company; Brewster Environmental Industries, Inc./HT&T Truck Center; Hawaii Transportation Association; Hawaiian

## ***Honolulu Clean Cities Program***

Electric Company, Inc.; Pacific International Center for High Technology Research; University of Hawaii - Hawaii Natural Energy Institute; U.S. Electricar; U.S. GSA; and U.S. DOE.

### **Significant Stakeholders Added Since Designation**

Ameron HC&D; Cummins Hawaii Diesel Power; Ilima Transportation, Inc.; and Pacific Biodiesel.

### **Clean Cities Coordinator**

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### **City and County of Honolulu Propane Vehicles**



### **Coalition Web Site**

<http://www.hawaii.gov/dbedt/ert/cc>

## Chicago Clean Cities Program

Designation Number	Date	Participating DOE Official
10	May 13, 1994	Hazel R. O'Leary, Secretary of Energy

### Summary of AFVs and Infrastructure

<i>Fuel Type</i>	<i>AFVs at Designation</i>	<i>Projected AFVs in 2000</i>	<i>Infrastructure at Designation</i>	<i>Projected Infrastructure in 2000</i>
CNG	1,164	977	20	32
Propane	236	26	45	12
Methanol	245	-	2	-
Ethanol	45	1,500	2	1
Electric	1	-	1	-
Total	1,691	2,503	70	45

### Achievements

During 1997, Chicago-O'Hare International Airport adopted a strategic plan to convert vehicles at the airport to CNG. The plan was four years in the making.

Also during 1997, the country of Chile signed an MOU with the Chicago Clean Cities Program to start a Clean Cities initiative in that country.

In August 1998, SB 1840 was passed in Illinois. This is a bill which extends the availability of rebates for alternative fuel vehicles through 2002, and also extends the state's ethanol research program through 2002. Rebates are available for conversion costs, OEM incremental costs, or fuel incremental costs. Up to 80% of the conversion cost or OEM incremental cost can be offset by a rebate, or 80% of the fuel incremental costs over a three-year period.

### Grants Received

In 1995, the Chicago area received a NOPI grant for \$73,000 to develop training materials for fleet operators wishing to incorporate AFVs into their fleets. In 1996, the State of Illinois received an SEP grant for \$150,000 to provide 50 AFV rebates in the state. In 1997, Illinois (along with Iowa, Michigan, Minnesota, Missouri, Ohio, and Wisconsin) received a \$200,000 SEP grant for ethanol infrastructure development. The Chicago area received a 1997 GRI grant of \$257,000 for CNG infrastructure at O'Hare International Airport. In 1998, the State of Illinois received a \$250,000 SEP grant for ethanol infrastructure.

Leveraged a \$4.6 million Congestion Mitigation Air Quality (CMAQ) Grant for the Chicago Transit Authority to conduct a Hydrogen Fuel Bus Demo Project. Buses began operating in summer 1996. A public/private partnership including Ballard Fuel Cell, SAIC, and all levels of government are involved. An additional \$75,000 was awarded to develop an education program for other city transit authorities.

The City of Chicago was awarded \$60,000 from DOE to purchase two CNG refuse haulers and \$100,000 to purchase two propane refuse haulers.

## Chicago Clean Cities Program

### Special Projects and Upcoming Events

During 1999, the Chicago Clean Cities Coalition will be holding AFV bus forums to educate over-the-road bus providers about alternative fuels within their industry. The Coalition will also be holding three workshops for fleets to determine their potential AFV requirements, and will be holding two *Advancing the Choice* events. They will also be distributing \$2 million in CMAQ monies for alternative fuel infrastructure.

### Original Stakeholders List

More than 100 stakeholders, 34 of which signed the Memorandum of Understanding (MOU) when the city was designated (shown in **bold**) including: Allstate Insurance Co.; **Alternative Transportation Fuel, Inc.**; **American Automobile Manufacturers Assoc.**; Amoco Oil Co.; Archer Daniels Midland Co.; Argonne National Laboratory; Automotive Transportation Supervisors Assoc.; Autoresearch Laboratories; Brunswick Corp.; Business Development Group; Carburetion Labs of Illinois; **Cargill, Inc.**; Center for Neighborhood Technology; Chicago Area Transportation Study; **Chicago Bridge Industries, Inc.**; **Chicago Fire Department**; Chicago Housing Authority; **Chicago Transit Authority**; Chrysler Corp.; city of Chicago; **Clark Refining & Marketing**; **Commonwealth Edison**; Cook County Environmental Control; DAI Controls; **Delaware Cars & Limousines**; **Dept. of Fleet Management**; **Energy Resource Center-University of Illinois**; Diversified Fleet Services; Environmental Law & Policy Center; Ethaco Corp.; Ethanol Work Group; Federal Transit Authority; Foley & Lardner; Ford Motor Company; **Gas Research Institute**; GM Truck Division; General Parking Corp.; **Illinois Corn Growers Association**; **Illinois Department of Energy & Natural Resources**; Illinois Industrial Equipment Co.; **Illinois Institute of Technology**; **Illinois Soybean Association**; Illinois State Chamber of Commerce; Ingersoll-Dresser Pump Co.; Institute of Gas Technology; Interchem Environmental Inc.; **Knowles Electronics Inc.**; Liquid Carbonic, Inc.; Metropolitan Water Reclamation District; **MidCon Development Corp.**; Midway Labs; National SoyDiesel Development Board; **Northern Illinois Gas**; **Patten Power Systems**; **Pekin Energy Co.**; **Peoples Gas**; **Regional Transit Authority**; SNS Industrial; Sahara-NGV; Service Delivery South Shops; Sierra Club; Soleq Corp.; Standard Parking Corp.; State Farm Insurance; Steel Tank Institute; Synchro-Start Products, Inc.; Teamsters Chauffeurs & Helpers Union; Terra Fuels, Inc.; Texas General Land Office; **Thornton Oil Corp.**; **Transportation Center of Northwestern University**; University of Illinois; **VPSI**; Wheels, Inc.; **U.S. EPA-Region V**; **U.S. GSA-Region V**; U.S. DOT; U.S. Postal Service; and **U.S. DOE-Region V**.

**Dave Milton of Mid-America Propane, with his propane Ford pickup. The Clean Cities decals were specially made for this truck to promote the Chicago Clean Cities Program.**



### Significant Stakeholders Added Since Designation

American Lung Association; Illinois Environmental Protection Agency; National Ethanol Vehicle Coalition; National Propane Gas Association; United Airlines; University of Illinois at Chicago; and Yellow Cab.

### Clean Cities Coordinator

Carol Brown

## ***Chicago Clean Cities Program***

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### **Coalition Web Site**

*<http://web1.igt.org/chicagocleancities>*

**Peoria Clean Cities Program**

Designation Number	Date	Participating DOE Official
34	November 22, 1994	John Russell, Director Office of Transportation Utilization

**Summary of AFVs and Infrastructure**

<i>Fuel Type</i>	<i>AFVs at Designation</i>	<i>Projected AFVs in 2000</i>	<i>Infrastructure at Designation</i>	<i>Projected Infrastructure in 2000</i>
CNG	30	157	3	3
Propane	35	25	1	5
Ethanol	20	13	3	1
Total	85	195	7	9

**Achievements**

In 1996, the Peoria Clean Cities Coalition and the Central Illinois Light Company installed a slow-fill CNG refueling station for the U.S. Postal Service in Peoria. Additionally, the City of Peoria installed a slow-fill CNG refueling site at its offices.

**Grants Received**

In 1996, the State of Illinois received an SEP grant for \$150,000 to provide 50 AFV rebates in the state. In 1997, Illinois (along with Iowa, Michigan, Minnesota, Missouri, Ohio, and Wisconsin) received a \$200,000 SEP grant for ethanol infrastructure development.

The Peoria area was awarded \$69,000 from DOE to develop a kindergarten through high school outreach program to increase awareness of AFVs. The funds were awarded after 113 Post Office vehicles were converted to CNG. Postal carriers will be speaking at various schools.

**Special Projects and Upcoming Events**

None currently planned.

**Original Stakeholders List**

Twenty-three stakeholders including: city of Peoria; Peoria County; Illinois Department of Energy & Natural Resources; Greater Peoria Mass Transit; Peoria Park District; Peoria School District 150; Illinois Natural Gas Vehicle Coalition; Illinois Corn Growers Association; Bradley University; Door-to-Door; Cady Oil Company; Growmark, Inc.; Caterpillar, Inc.; Central Illinois Light Company; Harms Florists; Illinois-American Water Company; DAI Technologies, Inc.; PIP Printing; Synchro-Start Products, Inc.; Midwest Grain Products of Illinois, Inc.; Pekin Energy Company; U.S. Postal Service; and U.S. DOE.

**Significant Stakeholders Added Since Designation**

None at this time.



## *Peoria Clean Cities Program*

### **Clean Cities Coordinator**

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### **Greater Peoria Mass Transit District Ethanol Bus Fleet**



### **Coalition Web Site**

None at this time.

## Central Indiana Clean Cities Alliance

Designation Number	Date	Participating DOE Official
68	March 4, 1999	Thomas Gross, Deputy Assistant Secretary for Transportation Technologies

### Summary of AFVs and Infrastructure

<i>Fuel Type</i>	<i>AFVs at Designation</i>	<i>Projected AFVs in 2000</i>	<i>Infrastructure at Designation</i>	<i>Projected Infrastructure in 2000</i>
CNG	468	548	3	7
Propane	97	98	8	10
Ethanol	265	381	1	1
Electric	17	17	-	1
Total	847	1,044	12	19

### Achievements

Central Indiana's Knozone Program is an effort among several Clean Cities stakeholders—City of Indianapolis, Indianapolis Chamber of Commerce, Indianapolis Power & Light, and Cinergy/PSI. The program seeks to raise awareness of the impacts of ozone depletion and encourage voluntary measures to reduce greenhouse gas emissions. Corporate membership of the program exceeds 120 members. An ozone awareness school kit has also been a successful element of the program.

Electricore, a CICCA stakeholder, is one of the seven electric vehicle consortia in the U.S. working to design, develop, build, and test advanced EV technologies for military and civilian use. It is a public/private partnership for R&D activities that seeks to advance electric and hybrid electric technology. Electricore is responsible for almost \$40 million in advanced research projects. The consortium has a fleet of 16 vehicles, including 3 hybrids and 13 EVs.

Citizens Gas & Coke Utility offers a rebate of \$1,000 per conversion for a limited number of vehicles per fleets. The utility also provides refueling station design, compressor sizing, and permitting on a case-by-case basis. Several CICCA stakeholders have taken advantage of this rebate, including: Marion County Health Department, for the conversion of six light-duty natural gas vehicles; BAA Indianapolis Airport, for the installation of a natural gas refueling station and for vehicle conversions; AAA Hoosier Motor Club, for the conversion of 12 passenger vehicles to CNG; Greene's Auto, for the conversion of two vehicles to CNG; Target Stores, for the conversion of one spotting tractor to CNG; Eli Lilly, for the conversion of four

**CICCA Coordinator David Zweisler (left) and DOE's Thomas Gross (right) at the CICCA Designation**



## ***Central Indiana Clean Cities Alliance***

delivery vehicles to CNG; Zee Medical Services, for the conversion of delivery vehicles; and Indiana Periodicals Distributors, for the conversion of four delivery vehicles to CNG.

### **Grants Received**

In 1995, the State of Indiana received a \$48,000 NOPI grant to provide various public outreach activities.

### **Special Projects and Upcoming Events**

Citizens Gas & Coke Utility plans to add 169 CNG vehicles to its existing fleet of 113 CNG vehicles by 2002. They also plan to open two more public refueling stations, bringing their total number of refueling stations to four.

### **Original Stakeholders List**

Thirty stakeholders including: American Lung Association; BAA Indianapolis Airport Authority; Cinergy Corporation; Citizens Gas & Coke Utility; City of Andersen; City of Columbus; City of Indianapolis; City of Shelbyville; Consultant; Countrymark Cooperative; Cummins Engine Company; Dow Elanco; Electricore; Greene's Auto & Truck Service; Hurricane Compressors; Indiana Corn Growers E85 Ethanol Association; Indiana Department of Agriculture; Indiana Department of Commerce; Indiana Department of Environmental Management; Indiana Energy, Inc.; Indiana Propane Gas Association; Indiana University; Indianapolis Chamber of Commerce; Indianapolis Economic Development Corporation; Indianapolis Power & Light Company; Jasper Engine and Transmission; Lubs Technologies, Inc.; Marion County Health Department; U.S. Department of Energy; and U.S. Postal Service.

### **Significant Stakeholders Added Since Designation**

AAA Hoosier Motor Club and Indiana Natural Gas Vehicle Coalition.

### **Clean Cities Coordinator**

David Zweisler, Clean Cities Coordinator  
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### **Coalition Web Site**

None at this time.

**Evansville Clean Cities Alliance**

Designation Number	Date	Participating DOE Official
54	January 30, 1997	David Rodgers, Director, Office of Technology Utilization

**Summary of AFVs and Infrastructure**

<i>Fuel Type</i>	<i>AFVs at Designation</i>	<i>Projected AFVs in 2000</i>	<i>Infrastructure at Designation</i>	<i>Projected Infrastructure in 2000</i>
CNG	-	359	-	9
Propane	-	27	-	3
Ethanol	-	33	-	1
Electric	-	9	-	-
Fuel Unspecified	240	-	11	-
Total	240	428	11	13

**Achievements**

The Evansville Vanderburgh School Corporation has one of the largest natural gas school bus fleets in the country, with more than 150 buses.

The Evansville Clean Cities Alliance was an integral supporter of the move by the Metropolitan Evansville Transit System (METS) to replace aging diesel trolleys with battery-electric trolleys. The Alliance joined with several other agencies to provide funding for a fast-charging station which allowed METS to purchase three electric trolleys.

**Grants Received**

In 1995, the State of Indiana received a \$48,000 NOPI grant to provide various public outreach activities. In 1997, the Evansville area (along with Kentucky and Cincinnati) received a \$200,000 SEP grant to construct CNG and ethanol stations and convert vehicles. Also in 1997, the Evansville area received an SEP grant of \$22,000 to purchase either 8 city and 4 private AFVs or one electric pickup. In 1999, the Evansville area received an SEP grant for \$21,758 to purchase equipment for one ethanol refueling station.

**Special Projects and Upcoming Events**

The Evansville Clean Cities Alliance expects that a second public CNG refueling station will be completed in 1999 at the intersections of US 41 and I-64. The Alliance is also seeking funding to establish the first of three ethanol refueling facilities, to be located downtown near government fleets.

The Alliance will be sponsoring a "Clean Vehicle" to lead each road race, marathon, and fun run in 1999.

## *Evansville Clean Cities Alliance*

### Original Stakeholders List

Forty-one stakeholders including: the City of Evansville; Alvey Sign Co.; American Lung Association; ATLAS Machine and Supply; Bachman NGV; Bristol-Myers Squibb; Castle Contracting; D-Patrick Ford; Don's Cleaners; Energy Systems Group, Inc.; Evansville Urban Transportation Study; Evansville Courier Company; Evansville-Vanderburgh School Corporation; IMW Atlas Corporation; IVY Tech State College, Evansville Campus; Jasper Engine and Transmission; Koch Air Conditioning; Lin-Gas; Lub's Technologies, Inc.; M&M Auto Sales; Metropolitan Evansville Chamber of Commerce; Metropolitan Evansville Transit System; Mounts Electric; Mulzer Crushed Stone; Old National Bank; Operation City Beautiful; Oswald & Associates; Schwan's Foods; Southern Indiana Gas & Electric, Inc.; Southwest Indiana Regional Council on Aging; Sub-Tech, Inc.; Texas Gas Transmission; U.S. Environmental Protection Agency; U.S. Postal Service; University of Southern Indiana; University of Evansville; Vanderburgh County; Welborn Hospital; Yellow Cab Company; YMCA of Southwest Indiana; and Zee Medical Supplies.

### Southern Indiana Gas & Electric Company's CNG Refueling Station



### Significant Stakeholders Added Since Designation

Busler Enterprises; Clayton's Fine Drycleaning; Deaconess Hospital; Electric Vehicles International, LLC; Evansville ARC; Evansville Solid Waste Management District; and Radiopharmacy.

### Clean Cities Coordinator

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### Coalition Web Site

None at this time.

### South Shore Clean Cities Program

Designation Number	Date	Participating DOE Official
71	June 15, 1999	Brian Castelli, Chief of Staff for Energy Efficiency and Renewable Energy

#### Summary of AFVs and Infrastructure

<i>Fuel Type</i>	<i>AFVs at Designation</i>	<i>Projected AFVs in 2000</i>	<i>Infrastructure at Designation</i>	<i>Projected Infrastructure in 2000</i>
CNG	461	495	13	13
LNG	8	8	1	1
Propane	30	30	2	2
Ethanol	3	3	1	1
Electric	1	1	-	-
Total	503	537	17	17

#### Achievements

South Shore Clean Cities activities have been featured in the local media, including several news articles in Hammond, Indiana's Post Tribune. Coalition stakeholders have also been featured on live radio broadcasts. Coordinator Liz Williams and Victoria Scott (formerly of the Indiana State Energy Office) discussed Clean Cities activities on WLTH 1370 in Gary, IN, and Ms. Williams, Coalition Co-Chair Bob Schacht of NIPSCO, and City of Crown Point Mayor James Metros shared live airtime on WJOB 1270 in Hammond, IN.

Northern Indiana Public Service Company (NIPSCO) is the largest AFV company in the area. NIPSCO currently operates 650 CNG vehicles in its service area, which is comprised of the entire northern third of the State of Indiana. NIPSCO maintains 346 CNG vehicles and six alternative refueling stations in the three county area of the South Shore coalition. NIPSCO also performs conversions.

Ivy Tech State College is an active participant in the South Shore Clean Cities effort, and offers a full alternative fuels training program. Ivy Tech is a member of the National Alternative Fuels Training Consortium, has participated in the Ethanol Challenge, and currently has a contract with the City of Chicago for AFV training. Ivy Tech, in conjunction with the Indiana Department of Commerce/Energy Policy Division, traveled to 35 cities to test vehicles and promote alternative fuels through the Emission Control Program.

#### Grants Received

In 1997, the South Shore area received a \$50,000 SEP grant to develop a regional CNG refueling site and convert vehicles to CNG. In 1999, the South Shores Clean Cities Coalition received a \$20,000 SEP grant to support the Clean Cities Coordinator.



## *South Shore Clean Cities Program*

### Special Projects and Upcoming Events

The South Shore Clean Cities Coalition plans to establish an information kiosk on Clean Cities and AFVs that will be located in a new welcome center (currently under construction) located off the highway for drivers as they enter Indiana from Chicago. The welcome center is a project of the Lake County Tourism Board, and will be located near the I-80/I-94 interchange. It is estimated that 160,000 drivers traverse that particular section of I-80 each day.

### Original Stakeholders List

Twenty-four stakeholders including: Alternative Technologies; Christenson Chevrolet; City of Crown Point; City of East Chicago; City of Lake Station; City of LaPorte; DaimlerChrysler Corporation; Eichhorn & Eichhorn; Environmental Resources Management; Ford Motor Company; Gary Public Transportation Commission; Indiana Department of Environmental Management; IVY Tech State College; Kopack & Associates; Northwestern Indiana Regional Planning Commission; LakeShore Ford/Mercury; LCEOC, Inc.; Northwestern Indiana Public Service Company; Northwest Indiana Forum; Northwest Indiana Planning Commission; Save the Dunes Council; School City of Hammond; Town of Trail Creek; and TradeWinds Rehabilitation Center.

### Significant Stakeholders Added Since Designation

None at this time.

### Clean Cities Coordinator

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### Coalition Web Site

None at this time.

## Southwest Kansas Clean Cities Program

The SW Kansas Clean Cities Program is a “natural” candidate for using natural gas as an alternative to conventional transportation fuels. The Hugoton-Liberal area sits atop the country’s largest gasfield and is one of only four of the world’s “super-giants” fields.

Designation Number	Date	Participating DOE Official
35	March 30, 1995	Jeffrey Hardy, Co-Director Clean Cities Program

### Summary of AFVs and Infrastructure

<i>Fuel Type</i>	<i>AFVs at Designation</i>	<i>Projected AFVs in 2000</i>	<i>Infrastructure at Designation</i>	<i>Projected Infrastructure in 2000</i>
CNG	35	10	2	1
Propane	175	175	2	2
Total	210	185	4	3

### Achievements

The Southwest Kansas Clean Cities Coordinator worked with Coke Oil to interest them in research in biodiesel from animal fats. Animal fats from local cattle packaging plants could be made into biodiesel.

### Grants Received

None at this time.

### Special Projects and Upcoming Events

Nothing currently planned.

### Original Stakeholders List

Twenty-five stakeholders including: the city of Hugoton; city of Liberal; Stevens County, Kansas; Hugoton School District; Kansas Corporation Commission; Stevens County Economic Development Board; State Senator Steve Morris; Anadarko Petroleum Corporation; APCO Corner Mart; Alternate Fuel Specialists, Inc.; Hugoton School District; J-W Operating Company; Kansas Corngrowers Association; Merritt Oil Company; MESA; Midwest Biofuels; Mobil Oil; Panhandle Eastern; Peoples Natural Gas; Phillips 66; Southwest Gas Equipment Company; Spikes Commodities; U.S. EPA; U.S. GSA; and U.S. DOE.

### A Kansas Corporation Commission CNG Car Being Refueled



### Significant Stakeholders Added Since Designation

Stevens County.

## *Southwest Kansas Clean Cities Program*

### Clean Cities Coordinator

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Southwest Kansas Clean Cities Coalition  
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### Coalition Web Site

None at this time.

## Central Kentucky (Louisville) Clean Cities Program

The Louisville Clean Cities Program is composed of the Louisville and Jefferson County Clean Cities Coalition—an umbrella group known as the Kentucky Clean Fuels Coalition.

Designation Number	Date	Participating DOE Official
20	October 18, 1994	Susan F. Tierney, Assistant Secretary, Office of Policy

### Summary of AFVs and Infrastructure

<i>Fuel Type</i>	<i>AFVs at Designation</i>	<i>Projected AFVs in 2000</i>	<i>Infrastructure at Designation</i>	<i>Projected Infrastructure in 2000</i>
CNG	350	600	13	19
Propane	-	625	-	107
Ethanol	-	1,400	-	22
Electric	-	10	-	-
Total	350	2,635	13	148

### Achievements

Louisville was the host city for the Fifth National Clean Cities Conference in May 1999.

In a contest sponsored by the Louisville Clean Cities Program, children from 88 area elementary schools were asked to design an alternative fuel vehicle stamp for the U.S. Postal Service cancellation machine. The winning design, showing an alternative fuel school bus, is now being used on more than one-third of all mail being routed through the main Louisville post office.

At Louisville International Airport, 25 CNG vehicles are currently in operation, with 14 more being converted. CNG infrastructure is being built at the airport, and airlines will be urged to use the refueling station when it is completed.

At Mammoth Cave National Park, an ethanol refueling station has been installed and is now operational. This makes Mammoth Cave the first National Park in the U.S. Department of Interior to have an ethanol refueling station.

**KCFC Coordinator Melissa Howell and Kentucky Lieutenant Governor Stephen Henry at the Fifth National Clean Cities Conference in Louisville**



### Grants Received

In 1995, the Louisville area was awarded a NOPI grant of \$105,000 to construct four new public CNG refueling stations. In 1996, the Louisville area was awarded an SEP grant of \$230,000 to convert about 50 vehicles to CNG. In 1997, the Louisville area was awarded an SEP grant of \$50,000 to convert 14 vans to CNG at the Metropolitan Sewer District.

## ***Central Kentucky (Louisville) Clean Cities Program***

The Louisville area was granted \$1.5 million in Congestion Mitigation Air Quality (CMAQ) funding to purchase new vehicles.

### **Special Projects and Upcoming Events**

At Fort Knox, plans call for an alternative fuel refueling station to be built on the military reservation, one of the largest military training facilities in the country. Approximately 35 ethanol vehicles and 26 CNG vehicles are in operation at Fort Knox, and a total of 250 CNG vehicles are planned for the base.

The University of Kentucky will be adding 60 ethanol Ford Taurus' to its fleet, and they will install a 10,000 gallon above-ground ethanol refueling tank to serve these vehicles.

### **Original Stakeholders List**

Thirty-five stakeholders including: city of Louisville; Jefferson County, Kentucky; city of Anchorage; Commonwealth of Kentucky; Kentucky Department for Natural Resources-Division of Energy; Kentucky Division for Air Quality; Air Pollution Control District of Jefferson County; Office for Economic Development, Louisville/Jefferson County; Jefferson County Department of Planning and Environmental Management; Metropolitan Sewer District; Regional Airport Authority; Transit Authority of River City; Louisville Water Company; American Lung Association; Kentucky Clean Fuels Coalition; Kentucky Corn Growers Association; Kentucky Propane Gas Association; Kentucky League of Cities; Jefferson County League of Cities; Louisville Area Chamber of Commerce; University of Louisville; Bachman NGV; Thornton Oil Company; IMW Atlas Industries, Inc.; Louisville Gas and Electric Company; Equitable Resources, Inc.; Richter Enterprises; SuperAmerica Group, Inc.; The Courier Journal; IME Group, Inc.; Texas Gas Transmission Corp.; Zip Express; U.S. EPA; U.S. GSA; and U.S. DOE.

### **Significant Stakeholders Added Since Designation**

Brown/Foreman Corporation; Cummins Engine Company; EDO Automotive Natural Gas Inc.; Ferrellgas; Ford Motor Company; General Motors Corporation; Kentucky Department of Environmental Protection; Kentucky Gas Association; Mammoth Cave National Park; Transit Authority of Northern Kentucky; U.S. Postal Service; United Parcel Service; and Yellow Cab.

### **Clean Cities Coordinator**

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### **Coalition Web Site**

<http://www.nr.state.ky.us/nrepc/dnr/energy/doekcfc.html>